

Amendments to the Claims

Please amend claim 171, 178, and 191 as noted in the Listing of Claims.

Please cancel claim 186 without prejudice or disclaimer.

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-156 (canceled)

Claims 157-170 (withdrawn)

171. (Currently Amended): A cell sensor panel, comprising,

a plurality of clonal eukaryotic cells, wherein each clonal cell comprises a distinct fusion RNA of a cellular RNA transcript and a beta lactamase polynucleotide encoding a β -lactamase, and

wherein said clonal cells exhibit a change in β -lactamase expression in response to the induction of expression of a target in said clonal cells, or in response to exposure of said clonal cells to a ligand, inhibitor or activator for said target, and

wherein said clonal cells, were selected from a population of cells transfected with a viral vector, ~~and wherein said viral vector~~ that lacks a promoter to express said β -lactamase, and

wherein the cells were selected using fluorescence activated cell sorting.

172. (Previously Presented): The cell sensor panel of claim 171, wherein said panel further comprises at least one cell line wherein said β -lactamase expression is under the control of a response element.

173. (Previously Presented): The cell sensor panel of claim 171, wherein said panel comprises at least 10 clonal cells.

174. (Previously Presented): The cell sensor panel of claim 171, wherein said panel comprises at least 50 clonal cells.
175. (Previously Presented): The cell sensor panel of claim 171, wherein said panel is present in a two dimensional array.
176. (Previously Presented): The cell sensor panel of claim 175, wherein said two dimensional array is formed within a multiwell plate.
177. (Previously Presented): The cell sensor panel of claim 171, wherein said clonal cells are derived from embryonic or hematopoietic stem cells.
178. (Currently Amended): A cell sensor panel, comprising,
a plurality of clonal eukaryotic, non-yeast cells, wherein each said clonal cell comprises a distinct fusion RNA of a cellular RNA transcript and a beta lactamase polynucleotide encoding a β -lactamase, ~~and~~
wherein said clonal cells exhibit a change in β -lactamase expression in response to contact of a test chemical with said clonal cells, and
wherein said clonal cells, were selected from a population of cells transfected with a viral vector encoding a β -lactamase without a functional signal sequence, and wherein said viral vector lacks a promoter to express said β -lactamase.

179. (Previously Presented): The cell sensor panel of claim 171, wherein said panel comprises at least 10 clonal cells.
180. (Previously Presented): The cell sensor panel of claim 176, wherein said panel comprises at least 50 clonal cells
181. (Previously Presented): The cell sensor panel of claim 176, wherein said panel further comprises at least one cell line wherein said β -lactamase expression is under the control of response element.
182. (Previously Presented): The cell sensor panel of claim 174, wherein said panel is present in a two dimensional array.
183. (Previously Presented): The cell sensor panel of claim 176, wherein said two-dimensional array is formed within a multiwell plate.
184. (Previously Presented): The cell sensor panel of claim 176, wherein said clonal cells are derived from embryonic or hematopoietic stem cells.
185. (Previously Presented): The cell sensor panel of claim 171, wherein the cells were selected using a membrane permeant substrate that is transformed by the cell into membrane impermeant substrates.
186. (Cancel)

187. (Previously Presented): The cell sensor panel of claim 171, wherein the clonal cells exhibit at least a 1.5-fold change in β -lactamase expression in response to the induction of expression of the target in the clonal cells, or in response to exposure of the clonal cells to the ligand, inhibitor or activator of the target.

188. (Previously Presented): The cell sensor panel of claim 178, wherein the cells were selected using a membrane permeant substrate that is transformed by the cell into membrane impermeant substrates.

189. (Previously Presented): The cell sensor panel of claim 188, wherein the cells were selected using fluorescence activated cell sorting.

190. (Previously Presented): The cell sensor panel of claim 178, wherein the clonal cells exhibit at least a 1.5-fold change in β -lactamase expression in response to the induction of expression of the target in the clonal cells, or in response to exposure of the clonal cells to the ligand, inhibitor or activator of the target.

191. (Currently Amended): A panel of clones, comprising,

a plurality of clonal eukaryotic cells, wherein each said clonal cell comprises a distinct fusion RNA of a cellular RNA transcript and a beta lactamase polynucleotide encoding a β -lactamase, and

wherein said clonal cells exhibit ~~at least a 1.5-fold~~ a change in β -lactamase expression in response to contact of a test chemical with said clonal cells,

wherein said clonal cells were selected from a population of cells transfected with a vector that lacks a promoter to express said β -lactamase, and

wherein the cells were selected using fluorescence activated cell sorting and a membrane permeant substrate that is transformed by the cell into a membrane impermeant substrate.

192. (Previously Presented): The panel of clones of claim 191, wherein the vector is a viral vector.

193. (New): The panel of clones of claim 191, wherein the vector encodes a β -lactamase without a functional signal sequence.